ROTATION SUPPORT FOR HEAT-DISSIPATION FAN

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ABSTRACT

An improved structure for rotational support for a heat-dissipation fan is disclosed, comprising a hollow ceramic bearing passing through and concentric with the fan rotor and rotating with said rotor, a hollow ceramic support bearing fixedly mounted to the base of the fan, and a hollow or solid ceramic axle tube passing through the inside of said bearing and rotating freely to reduce friction and allow high-speed rotation. The exterior surface of said bearing is ground or otherwise formed to provide better connection with the rotor, while the interior of the bearing and exterior of the axle tube are further processed to reduce contact area therebetween to reduce rotation friction. This improved structure has achieved reduced friction, reduced noise, reduced power consumption, longer life and higher rotational speed.